



SOL'ART

INNOSHADE

INSTALLATION MANUAL

IBLB09119
IBLB15032
IBLB20040
IBLB30050



 **INNOWOOD**[®]
SUSTAINABLE TIMBER ALTERNATIVE

Contents

1 INTRODUCTION	02
2 PRODUCT INFORMATION	03
3 FRAMING & PREPARATION	04
4 INSTALLATION	05-13
5 GENERAL	14-16

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1 INTRODUCTION

InnoShade, INNOWOOD SOL'ART Louver systems and INNOWOOD Opening Roof Systems are architecturally designed and developed sun shading systems, crafted from INNOWOOD's sustainable, durable and cost effective composite wood product range.

InnoShade SOL'ART Louver systems, can provide a striking architectural feature, also can provide screening to control natural light and privacy. Suitable for commercial and residential application.

Sol 'art Louvre Fixed System
Sol 'art Shutter Operable System
Sol 'art Motorised Control System

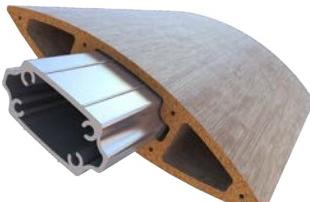
INNOWOOD BOARD is an advanced composite material does not splinter, mildew, is water, fire resistance and termite proof. It is also simple and easy to maintain.

1.1 Sol 'art Louvre Systems

Sol 'art Louvre Systems are designed few versatile Louvre Systems including Fixed, Sol 'art Shutter Operable and Sol 'art Motorised Systems for external and internal use.

Available with horizontal or vertical louvers panel, the system provide shade during the day while still allowing cross breezes to come through and can be fully closed at night for privacy. To maximise your useable living space by enclosing a deck or veranda to create a sun protected area. Automated solar shutters are perfect for those out of reach windows screens.

2 PRODUCT RANGE

Profile	Section	Product Code	Span*
		IBLB09119	H:1200mm V:1800mm
		IBLB09119	H:1200mm V:1800mm
		IBLB15032	H:1800mm V: 2700mm
		IBLB30050	H:3000mm V: 3800mm
		IBLB20040	6000mm

* Guide only, span based on reinforced section (with aluminium inserts) and is dependent on region and wind load. H: Horizontal V: Vertical

INNOWOOD products can be worked with ordinary woodwoking tools:

Circular Saw	Cordless Drill
Crosscut Mitre Saw	Level&Chalk Line
Carpenters Square	Tape Measure

To ensure long- term performance, we recommend that a professional trade person carry out the installation. The installation MUST be carried out in accordance with these instructions including the use of all trims and accessories.

3 FRAMING AND PREPARATION

3.1 SITE STORAGE & HANDLING

- INNOWOOD boards should not be dumped or dropped when unloading.
- INNOWOOD boards should be unpacked, stored on a flat surface and supported at 600mm centres.
- INNOWOOD should be stored under cover out of the weather and in the shade, until ready to install.
- INNOWOOD should not be stored in the rain or covered with plastic cover sheets.
- Do not slide boards against each other or drag equipment including tools across the top of the boards.
- INNOWOOD boards should be carried on edge, for better support.

3.3 THERMAL MOVEMENT

Any wood based products will expand and contract with changes in temperature, the amount of expansion varies according to the amount of changes of temperature. Although thermal movements are reversible, these movements due to temperature change may vary by up to 2mm per meter during the installation process, if both ends are properly fixed with screws.

INNOWOOD boards that have been exposed to the direct sun for several hours, prior to installation will have expanded more than those boards left in the shade. When installed, the hotter boards will contract more than the cooler boards that were left in the shade prior to installation. It is important to maintain an average consistent temperature for all the boards as it is being installed.

INNOWOOD products can tolerate temperature range from -20° to +65°, if there is any application has to be specifically adapted to suit the purpose that fall outside the limited of INNOWOOD products can tolerate , please consult with INNOWOOD.

3.2 FRAMING CONSTRUCTION REQUIREMENTS

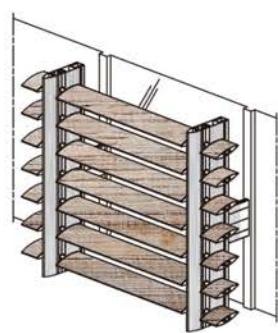
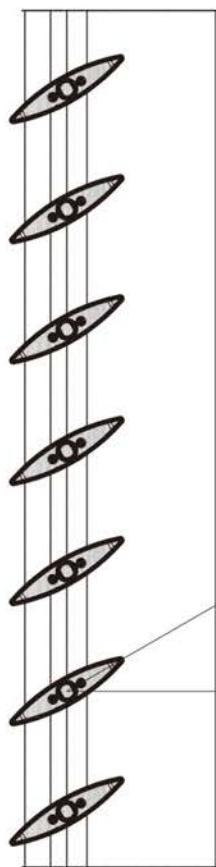
INNOWOOD louvre blade may be fixed to seasoned timber or steel framing members or to a proprietary batten system.

For installations in higher wind-load areas, it is recommended to contact our office.

NOTE

-When the construction is carried out in full sun, the temperature of INNOWOOD board is expected to be approx. 20 - 25 degrees higher than its ambient temperature. Hence, installation should not be carried out in extremes of temperature (less than 25 degree is recommended).

-Ensure product is stored under cover and out of direct sunlight during storage and installation to reduce expansion and contraction. Always fix boards from one end to the other and not middle to ends.

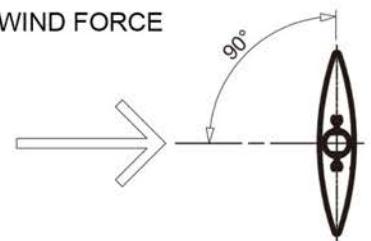


HORIZONTAL SOLUTION

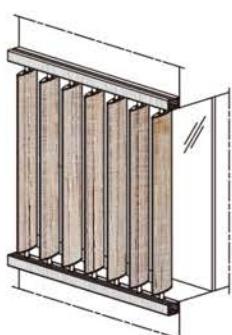
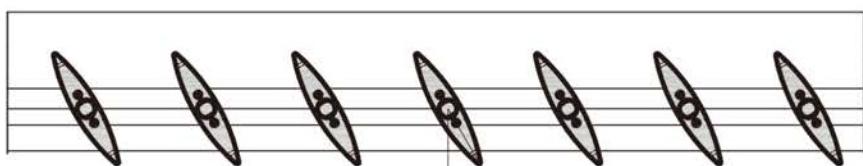
Angle β



WIND FORCE



FACADE



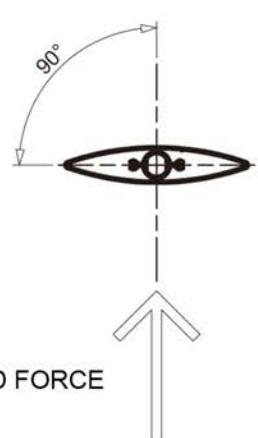
FACADE

0°



WIND FORCE

90°

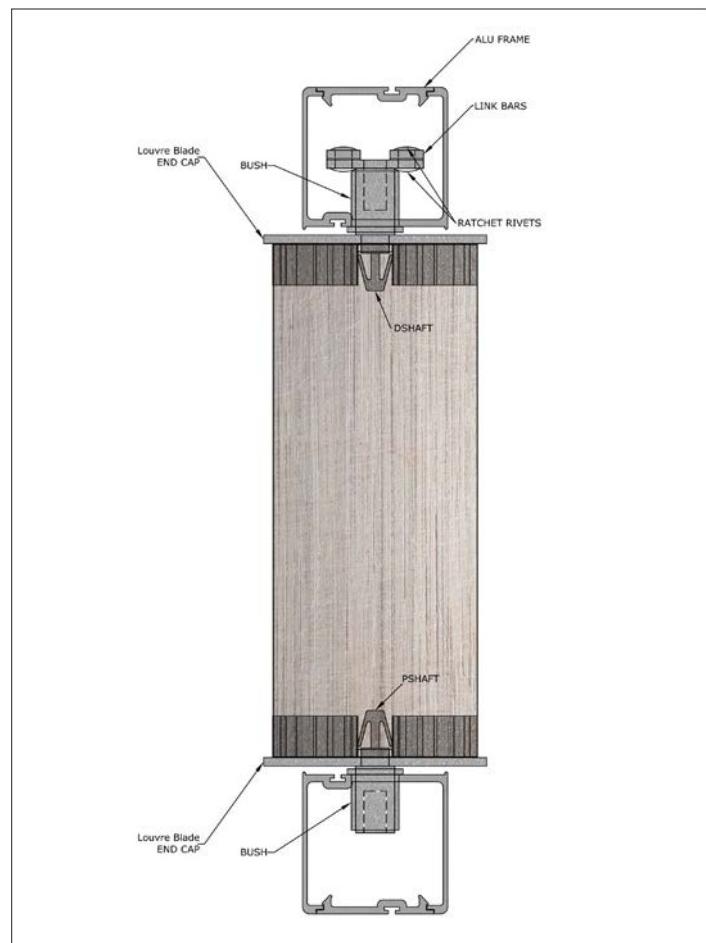


VERTICAL SOLUTION

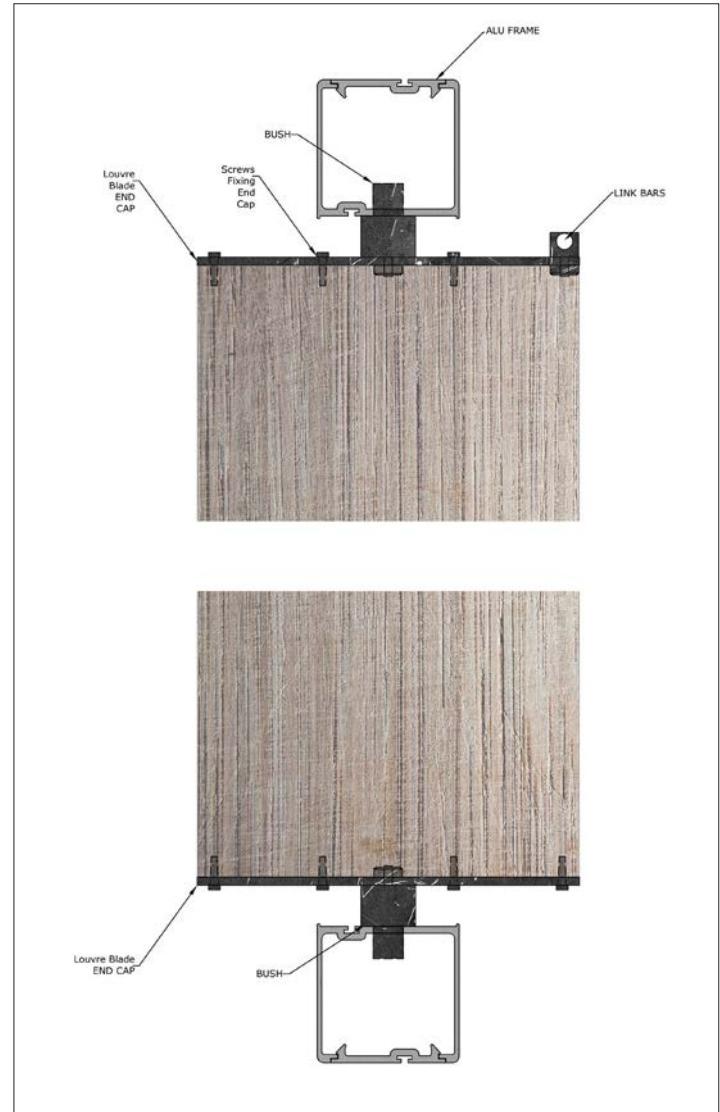
4 INSTALLATION

4.1 Preassembly

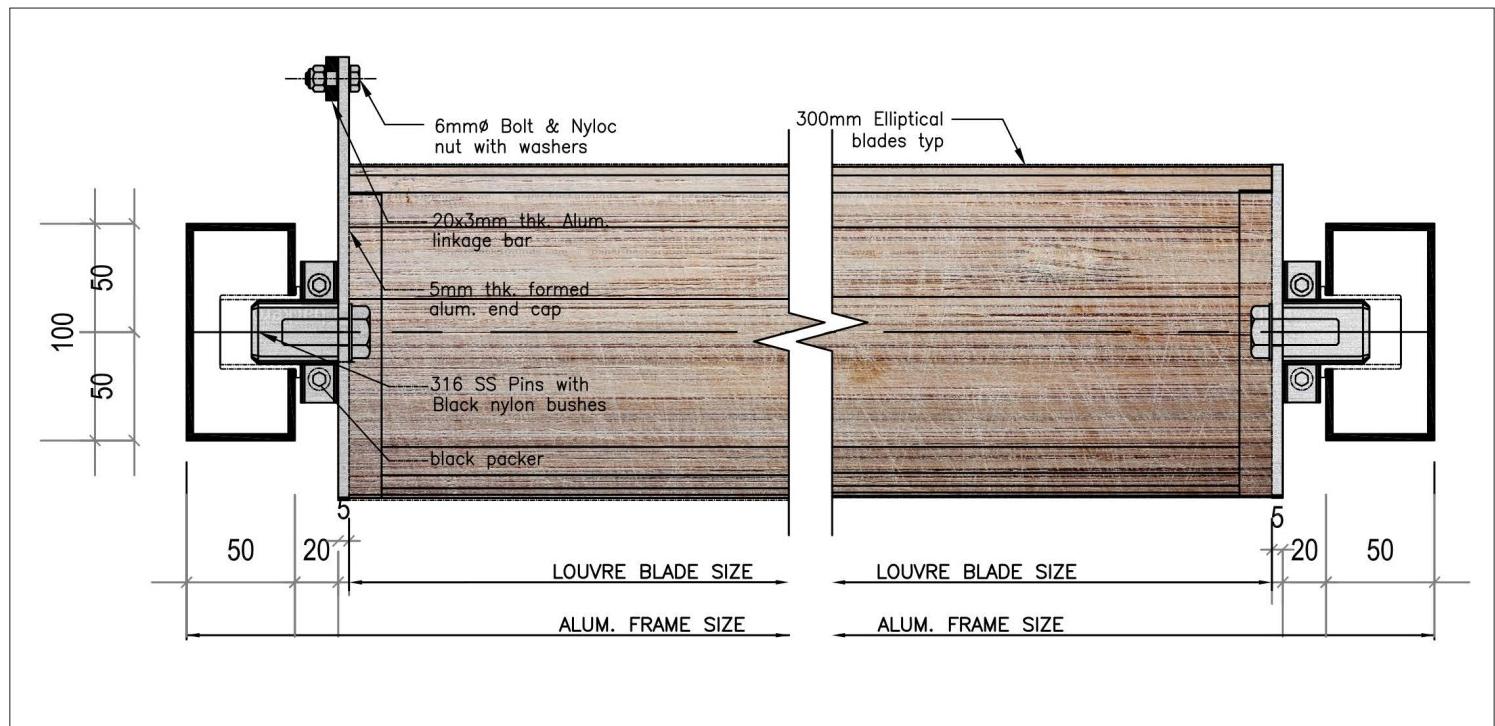
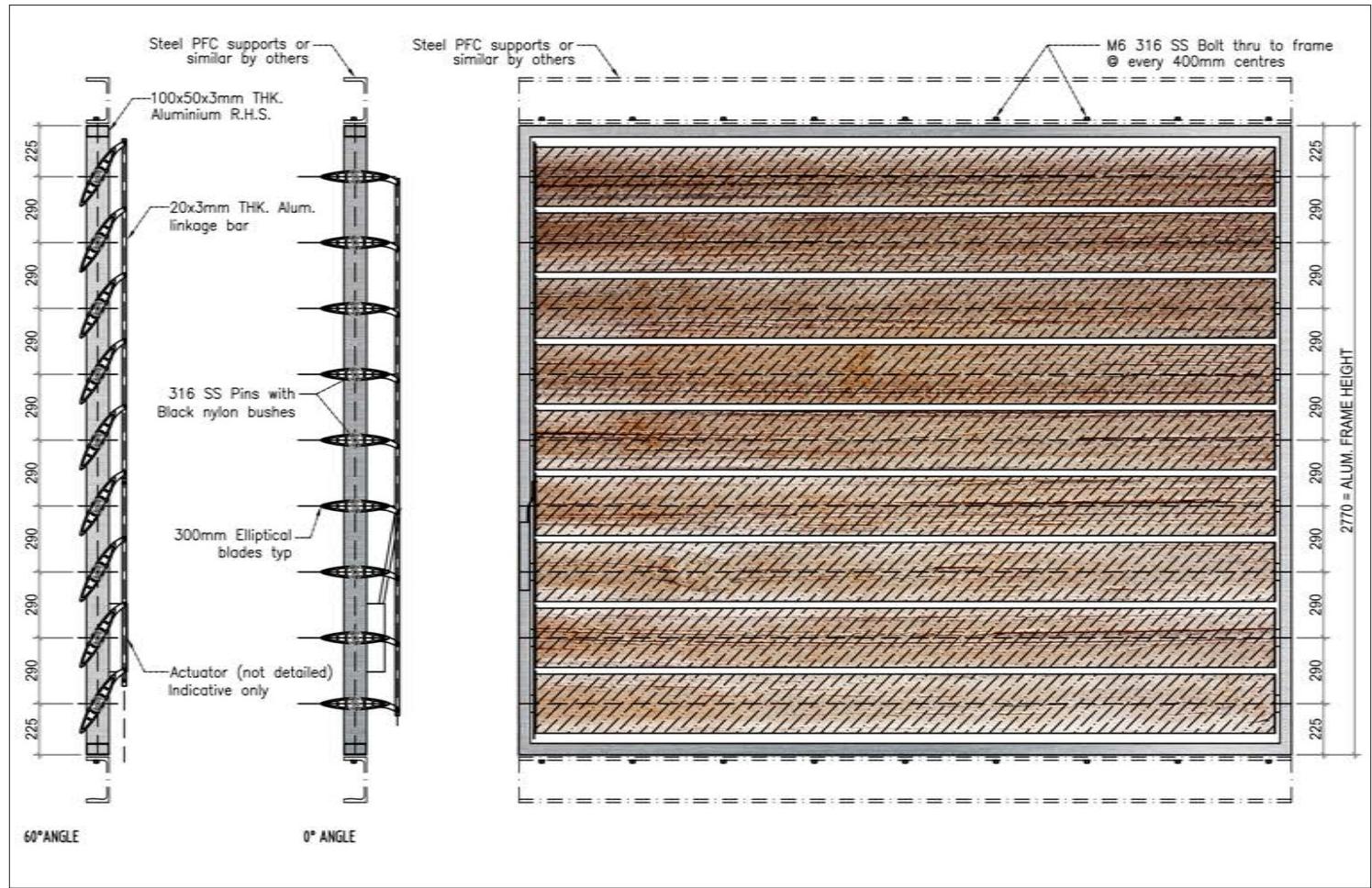
IBLB09119 prefabrication before installation

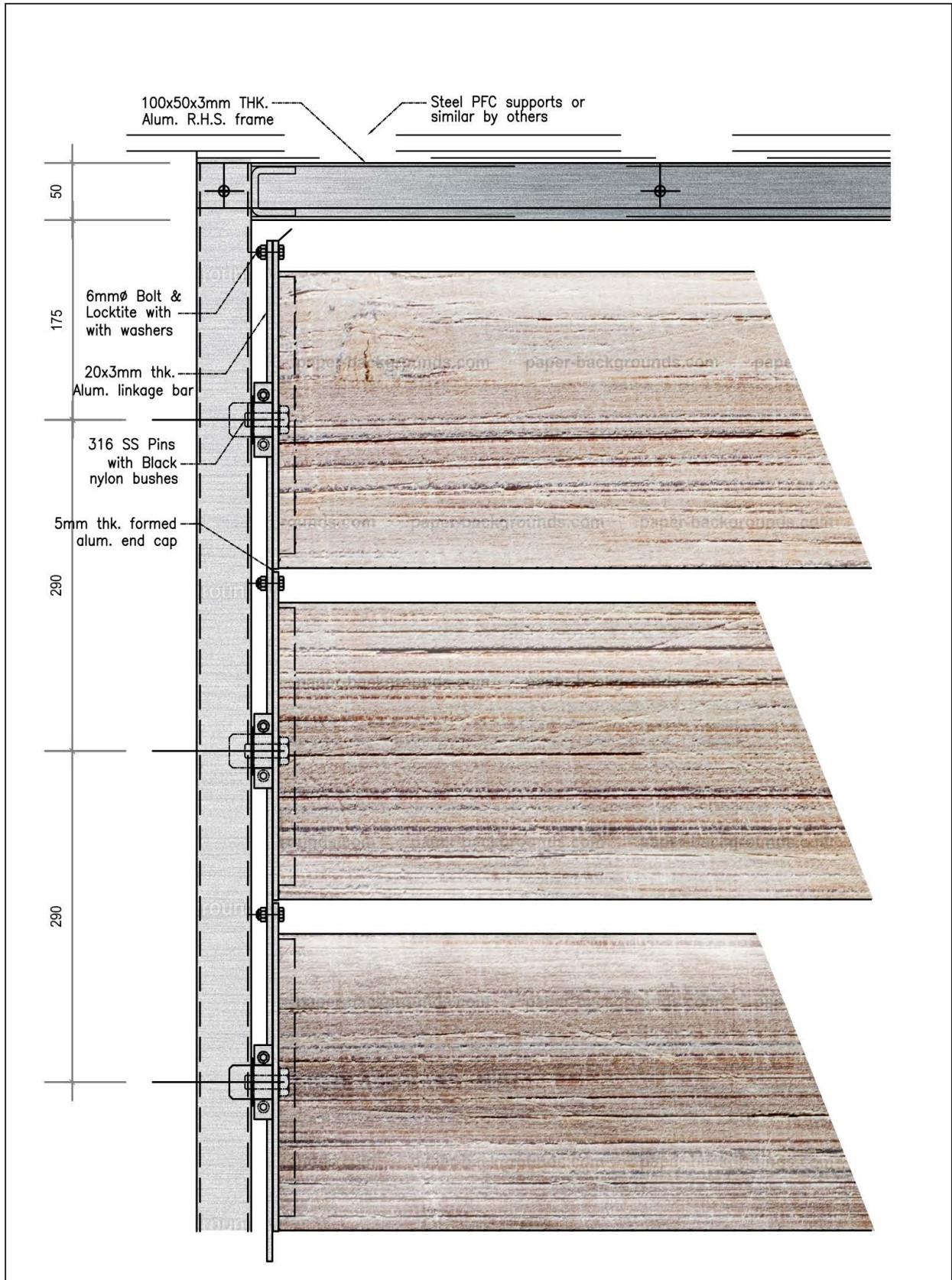


IBLB15032 preassembly before installation

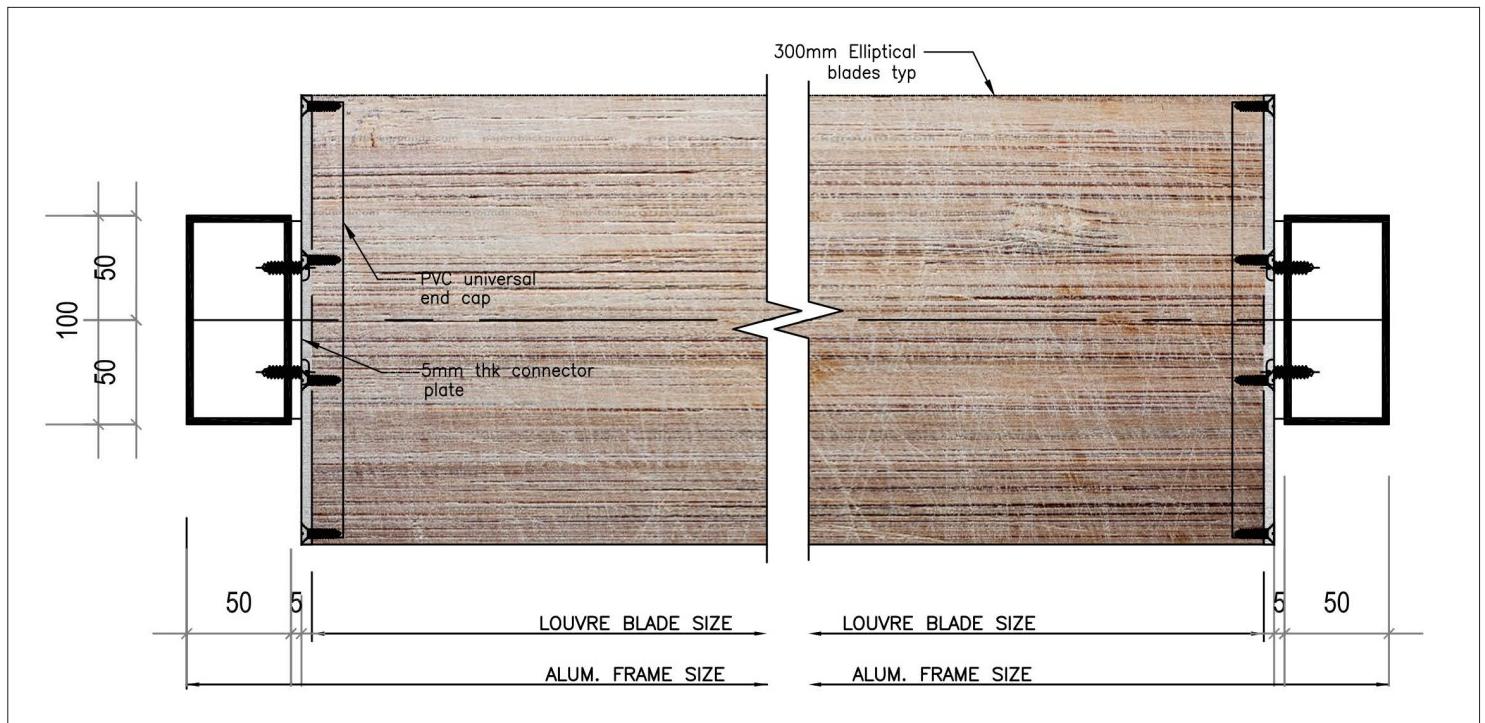
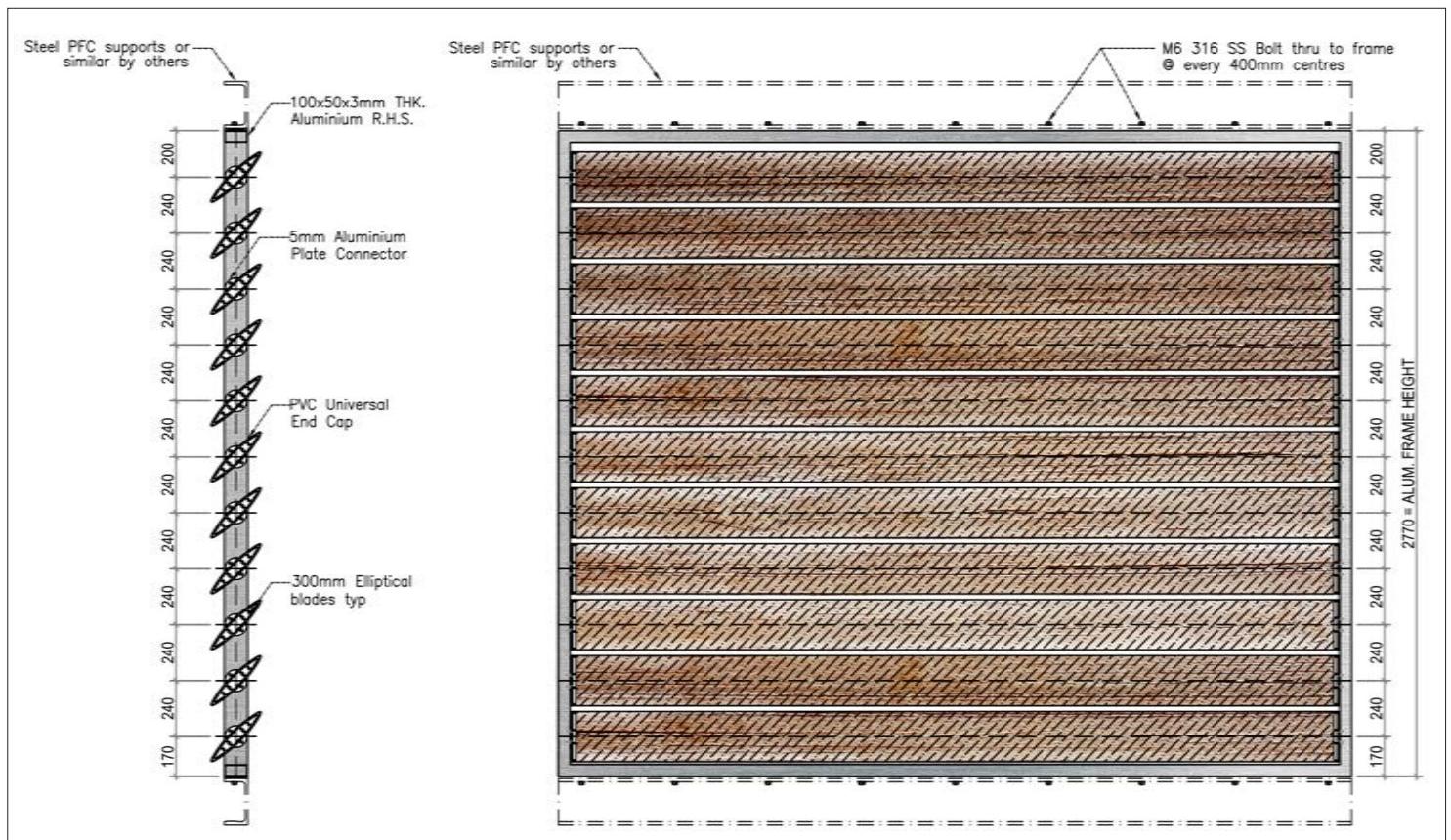


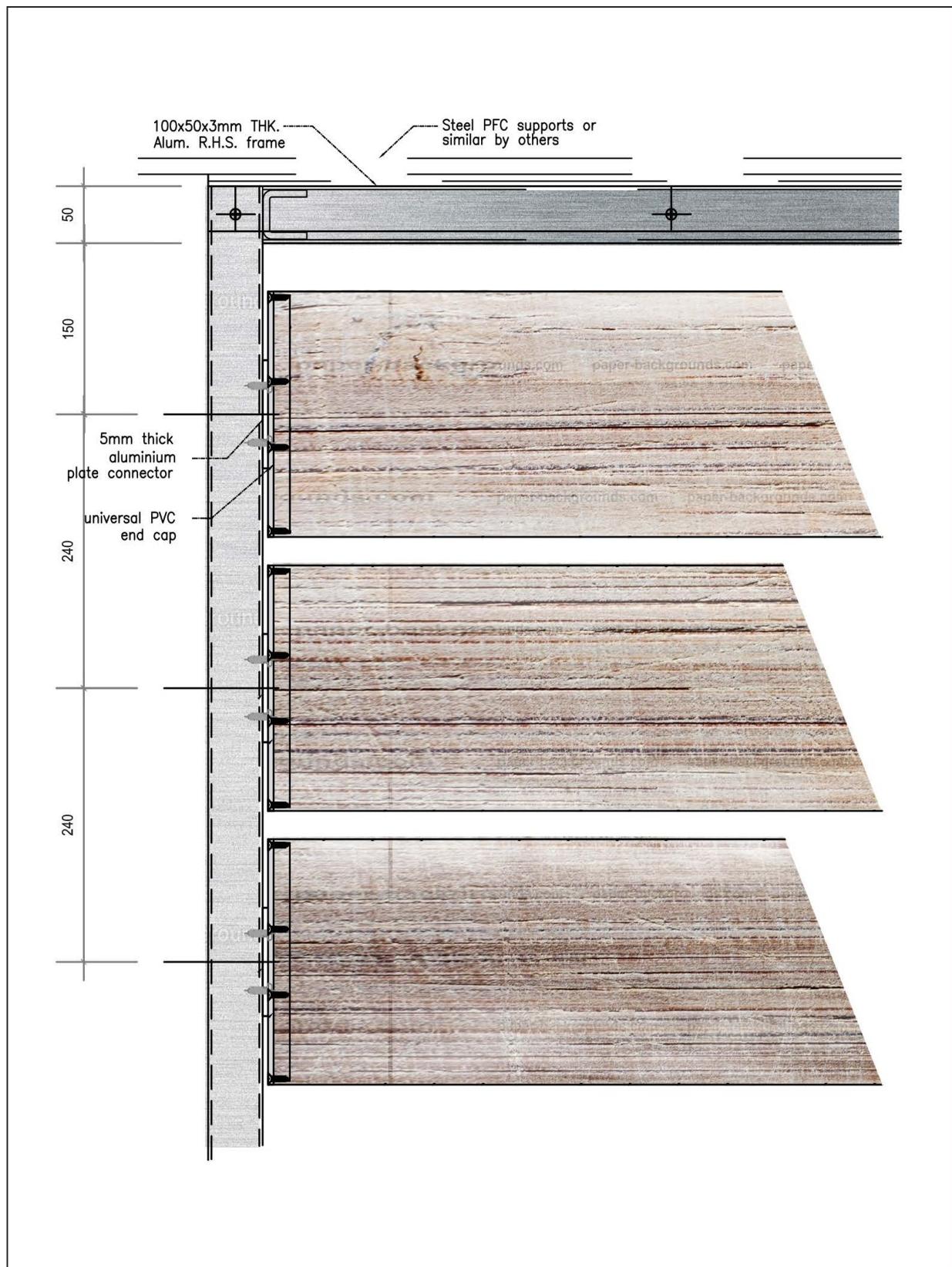
4.3 OPERABLE IBLB30050





4.3 FIXED IBLB30050





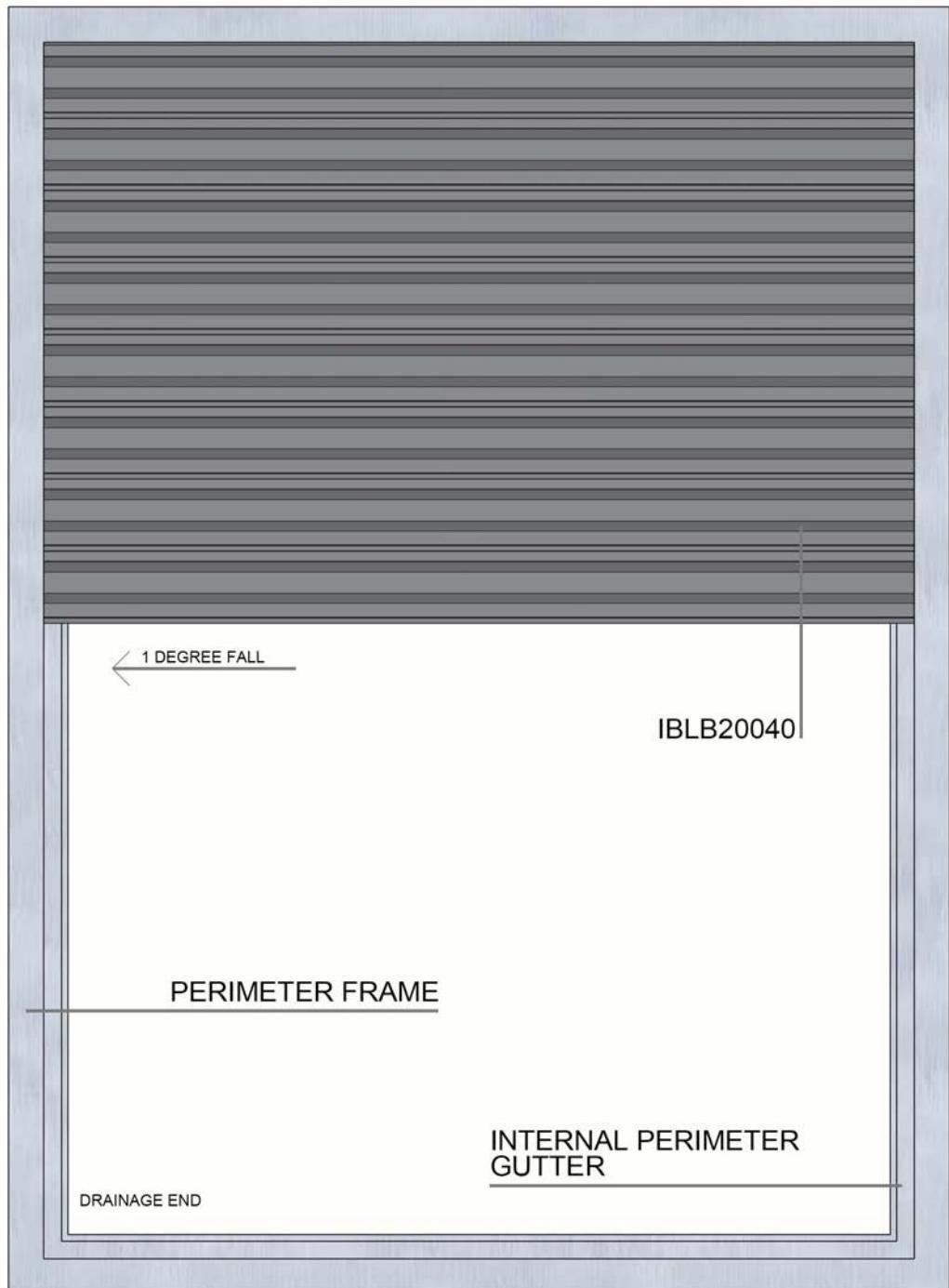


Sol 'art Motorised Control System

STEPS

1. Install Beams and Posts
2. Install Gutter to Beams
3. Track and Lock Angle
4. Install Motor
5. Install Louvres
6. Control Arm
7. Wiring and Controls

MAX 6000mm



5 GENERAL

5.1 SCREWS

Screws must comply with AS 3566 Self Drilling Screws for the Building and Construction Industries.

Screws must have a minimum Class 3 corrosion resistance, suitable for external applications in mild, moderate industrial and marine environments and Class 4 or stainless steel for severe environments.

Screw points and threads should be suited to framing material into which the screw is fastened, as shown in the following table.

fix to	point type	gauge & size
Timber Framing	 Type 17 or self-tapping	6 or 8g 18x50mm for connector 8g 18x50mm for last board fixing
Light gauge steel up to 2.5mm thick	 Self-drilling point screw	6g 18x40mm for connector 8g 18x40mm for last board fixing
	 Self-drilling winged screw	8g 18x40mm for connector 10g 16x45mm for last board fixing



Raised Countersunk Head



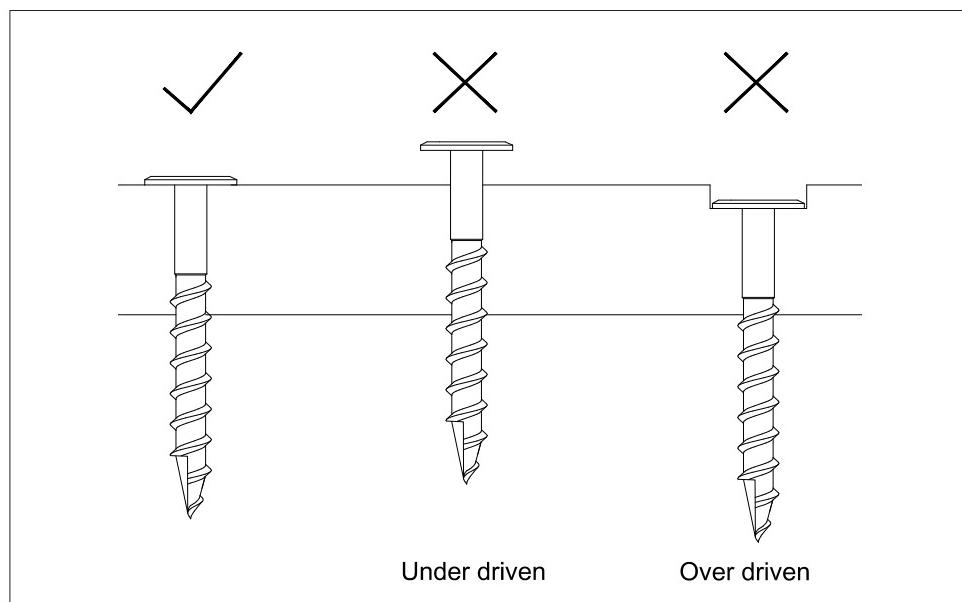
Countersunk Rib Head



Countersunk Head



Self Embedding head



SCREW DEPTH

5.2 CARE & MAINTENANCE

INNOWOOD product is a low-maintenance material; composite wood requires simple care and handling to ensure lasting integrity. It is best to complete cleaning when the board surface is cool to prevent cleaners from drying/evaporating on the board surface. Many stains can be cleaned with soap and water, normal procedure as following:

- Immediately wipe the spot stain area and remove as much of the spill as possible.
- If the spill consists of an abrasive substance, blot the spill. Do not rub.
- Soak the stained area with warm water and blot up with a soft towel.
- Using a clean towel or soft sponge, apply the soapy solution to the stain and allow to stand for 3 minutes.
- After the stain has soaked wipe with a clean towel or sponge.

INNOWOOD products are like any natural timber product, coating is required depending upon location to sun or how much pedestrian traffic it attracts. If INNOWOOD Board is not applied with a coating, when exposed to UV, INNOWOOD BOARD will oxidise and show discolouration, the colour will revert to its silver / grey colour, however it can be and revived by re-coating or stained should this be desired. Best protection of INNOWOOD board is ensured by applying the coating prior to installation.

The coating detail can be found out at our website :<http://www.innowood.com/resource-center/innowood-care-maintenance.html>.

To maintain and protect the colour and extend the life of your INNOWOOD Board, regular simple maintenance is recommended. Conducting routine 6-monthly maintenance inspections to determine to reapply Coating or not, it is time to re-apply coating when your InnoBoard surface begins to show signs of fading or dullness, InnoCoat is quick and easy to apply, InnoCoat will instantly bring back the colour to your INNOWOOD Board.

These Guidelines are subject to modifications without notice. Drawings & sketches are for illustration purpose only. Purchasers should verify whether any changes to specifications or applications or otherwise have been made since this literature was issued. This installation manual is only suited for conventional timber or metal framing systems. Please contact us for any other installation method.

5.3 TROUBLE SHOOTING

General dirt and debris

Spray with a hose to remove surface debris. Use warm soapy water and a soft-bristled brush to clear dirt and/or debris from grooves or contours. Pressure wash to remove more stubborn stains.

Oil, grease, food and drink

Remove and wipe as soon as possible. Spray with a hose and use warm soapy water and a soft-bristled brush. Pressure wash to more stubborn stains. Any surface stain that has been absorbed can be easily removed with a light, progressive sanding.

Ice and snow

Use a plastic shovel or broom to remove snow. Use rock salt or calcium chloride to melt ice.

Rust stains and engrained dirt

Cleaning products containing Oxalic or Phosphoric Acid can be used but DO NOT use bleach as this will lighten the cladding. With any cleaning product, test it on a small, inconspicuous area first, following manufacturer's instructions.

Disposal of Innowood offcuts

Spray with a hose to remove surface debris. Use warm soapy water and a soft-bristled brush to clear dirt and/or debris from grooves or contours. Pressure wash to remove more stubborn stains. Safely dispose of Innowood cladding as per local legislation.

- Do not burn.
- Treat as construction waste.
- If unsure, consult your local governing body/ council.

Scuffs, surface indents and marks

Sanding should only be used for very stubborn stains and to a maximum depth of 0.5mm. Most marks blend naturally after certain period. Please note: All timber based products will release tannins but these will naturally stabilise after approximately 12 weeks, depending on the temperature, UV and exposure to rain.

NOTES

FOR MORE INFORMATION, PLEASE VISIT INNOWOOD AT
WWW.INNOWOOD.COM
OR CALL 1300 787 717